

RECEIVED

JAN 02 2003

TECH CENTER 1600/2900



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/880,253B

DATE: 12/26/2002

TIME: 13:08:51

Input Set : A:\13711.txt

Output Set: N:\CRF4\12262002\I880253B.raw

#15

3 <110> APPLICANT: The University of Queensland  
 5 <120> TITLE OF INVENTION: EXPRESSION MODULATING SEQUENCES  
 7 <130> FILE REFERENCE: 2415281/EJH

C--&gt; 9 &lt;140&gt; CURRENT APPLICATION NUMBER: US/09/880,253B

10 <141> CURRENT FILING DATE: 2001-06-13  
 12 <150> PRIOR APPLICATION NUMBER: US 09/880,253  
 13 <151> PRIOR FILING DATE: 2001-06-13  
 15 <160> NUMBER OF SEQ ID NOS: 67  
 17 <170> SOFTWARE: PatentIn version 3.0

19 &lt;210&gt; SEQ ID NO: 1

20 &lt;211&gt; LENGTH: 307

21 &lt;212&gt; TYPE: RNA

22 &lt;213&gt; ORGANISM: mouse

24 &lt;400&gt; SEQUENCE: 1

25 aguuuccagc ccuggaccac gcaucccgag caccgcgccc cgacggaggu cccuuugucc	60
26 ggcgcucucc cacauacuag aaauccucucc cuuucuuugag guugggauga agaagcaguu	120
27 gggacggcca gcuggagguc ugcgugguag agggaacucc agagacugug gaucaccaag	180
28 acugaacggc ugcucucgcc cacucuuugg gauguuucuu cuuaaggaaq cugaaaaacg	240
29 uuauugauuu ccaugaccag uuucugagau gaggguuaga ggucuccuca uccuuuccug	300
30 agacgcc	307

32 &lt;210&gt; SEQ ID NO: 2

33 &lt;211&gt; LENGTH: 188

34 &lt;212&gt; TYPE: RNA

35 &lt;213&gt; ORGANISM: mouse

37 &lt;400&gt; SEQUENCE: 2

38 aguuuccagc ccuggaccac gcaucccgag caccgcgccc cgacggaggu cccuuugucc	60
39 ggcgcucucc cacauacuag aaauccucucc cuuucuuugag guugggauga agaagcaguu	120
40 gggacggcca gcuggagguc ugcgugguag agggaacucc aggucccccuc auccuuuccu	180
41 gagacgcc	188

43 &lt;210&gt; SEQ ID NO: 3

44 &lt;211&gt; LENGTH: 74

45 &lt;212&gt; TYPE: RNA

46 &lt;213&gt; ORGANISM: mouse

48 &lt;400&gt; SEQUENCE: 3

49 aguuuccagc ccuggaccac gcaucccgag caccgcgccc cgacggaggu cccuuccucc	60
50 uucccugaga cgcc	74

52 &lt;210&gt; SEQ ID NO: 4

53 &lt;211&gt; LENGTH: 219

54 &lt;212&gt; TYPE: RNA

55 &lt;213&gt; ORGANISM: human

57 &lt;400&gt; SEQUENCE: 4

58 agacuccagc ccuggaccgc gcaucccgag cccagcgccc agacagaguc uguguaucuc	60
59 ugucucaggg aaccgugggu cuuugucucc gccuucccca uauuuagaa aaauuuacu	120

ENTERED

## RAW SEQUENCE LISTING

DATE: 12/26/2002

PATENT APPLICATION: US/09/880,253B

TIME: 13:08:51

Input Set : A:\13711.txt

Output Set: N:\CRF4\12262002\I880253B.raw

```

60 uccaugcggu uaaguugaag aggcuggagg gauggcuagc uggauqucuq cquuquagag      180
61 agguuaacccc agugucccca caccucuccc ugagacgcc                          219
63 <210> SEQ ID NO: 5
64 <211> LENGTH: 75
65 <212> TYPE: RNA
66 <213> ORGANISM: human
68 <400> SEQUENCE: 5
69 agacuccagc ccuggaccgc gcaucccgag ccagcgccc agacagagug uccccacacc      60
70 cuccucugag acgcc                                                        75
72 <210> SEQ ID NO: 6
73 <211> LENGTH: 8
74 <212> TYPE: DNA
75 <213> ORGANISM: artificial sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: Description of Artificial Sequence:This sequence represents
79     a Kozac sequence.
81 <220> FEATURE:
82 <221> NAME/KEY: misc_feature
83 <222> LOCATION: (2)..(2)
84 <223> OTHER INFORMATION: n = any nucleotide
86 <220> FEATURE:
87 <221> NAME/KEY: misc_feature
88 <222> LOCATION: (8)..(8)
89 <223> OTHER INFORMATION: n = any nucleotide
91 <400> SEQUENCE: 6
W--> 92 rncrcrwn                      8
94 <210> SEQ ID NO: 7
95 <211> LENGTH: 10
96 <212> TYPE: DNA
97 <213> ORGANISM: artificial sequence
99 <220> FEATURE:
100 <223> OTHER INFORMATION: Description of Artificial Sequence:This sequence represents
101     a strong Kozac sequence.
104 <400> SEQUENCE: 7
105 gccrccrwgg                      10
107 <210> SEQ ID NO: 8
108 <211> LENGTH: 10
109 <212> TYPE: DNA
110 <213> ORGANISM: artificial sequence
112 <220> FEATURE:
113 <223> OTHER INFORMATION: Description of Artificial Sequence:This sequence represents
114     a weak Kozac sequence.
116 <220> FEATURE:
117 <221> NAME/KEY: misc_feature
118 <222> LOCATION: (10)..(10)
119 <223> OTHER INFORMATION: n = any nucleotide
121 <400> SEQUENCE: 8
W--> 122 atttccrwgn                    10
124 <210> SEQ ID NO: 9

```

## RAW SEQUENCE LISTING

DATE: 12/26/2002

PATENT APPLICATION: US/09/880,253B

TIME: 13:08:51

Input Set : A:\13711.txt

Output Set: N:\CRF4\12262002\I880253B.raw

```

125 <211> LENGTH: 10
126 <212> TYPE: DNA
127 <213> ORGANISM: artificial sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence:This sequence represents
131     a 5' leader sequence.
133 <400> SEQUENCE: 9
134 atttccttga                                     10
136 <210> SEQ ID NO: 10
137 <211> LENGTH: 10
138 <212> TYPE: DNA
139 <213> ORGANISM: artificial sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Description of Artificial Sequence:This sequence represents
143     a 5' leader sequence with a weak Kozac sequence.
145 <400> SEQUENCE: 10
146 atttccatga                                     10
148 <210> SEQ ID NO: 11
149 <211> LENGTH: 11
150 <212> TYPE: DNA
151 <213> ORGANISM: artificial sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence:This sequence represents
155     a 5' leader sequence with a strong Kozac sequence.
157 <400> SEQUENCE: 11
158 gccagccatg a                                   11
160 <210> SEQ ID NO: 12
161 <211> LENGTH: 21
162 <212> TYPE: DNA
163 <213> ORGANISM: primer
165 <400> SEQUENCE: 12
166 agtttccagc cctggaccac g                       21
168 <210> SEQ ID NO: 13
169 <211> LENGTH: 21
170 <212> TYPE: DNA
171 <213> ORGANISM: primer
173 <400> SEQUENCE: 13
174 ggcgtctcag ggaaggatga g                       21
176 <210> SEQ ID NO: 14
177 <211> LENGTH: 27
178 <212> TYPE: DNA
179 <213> ORGANISM: primer
181 <400> SEQUENCE: 14
182 gctagcagtt tccagccctg gaccacg                 27
184 <210> SEQ ID NO: 15
185 <211> LENGTH: 27
186 <212> TYPE: DNA
187 <213> ORGANISM: primer
189 <400> SEQUENCE: 15

```

## RAW SEQUENCE LISTING

DATE: 12/26/2002

PATENT APPLICATION: US/09/880,253B

TIME: 13:08:51

Input Set : A:\13711.txt

Output Set: N:\CRF4\12262002\I880253B.raw

```

190 accggtggcg tctcagggaa ggatgag      27
192 <210> SEQ ID NO: 16
193 <211> LENGTH: 17
194 <212> TYPE: DNA
195 <213> ORGANISM: primer
197 <400> SEQUENCE: 16
198 gaggtgggaa tcttaag      17
200 <210> SEQ ID NO: 17
201 <211> LENGTH: 28
202 <212> TYPE: DNA
203 <213> ORGANISM: primer
205 <400> SEQUENCE: 17
206 ccagaaagtc ctctgttcc catgctgg      28
208 <210> SEQ ID NO: 18
209 <211> LENGTH: 21
210 <212> TYPE: DNA
211 <213> ORGANISM: primer
213 <400> SEQUENCE: 18
214 ctctcccttt ctgaggttg g      21
216 <210> SEQ ID NO: 19
217 <211> LENGTH: 27
218 <212> TYPE: DNA
219 <213> ORGANISM: primer
221 <400> SEQUENCE: 19
222 tcttgaggtt gggttgaaga agcagtt      27
224 <210> SEQ ID NO: 20
225 <211> LENGTH: 27
226 <212> TYPE: DNA
227 <213> ORGANISM: primer
229 <400> SEQUENCE: 20
230 cccactcttt gggttgttcc ttcttaa      27
232 <210> SEQ ID NO: 21
233 <211> LENGTH: 27
234 <212> TYPE: DNA
235 <213> ORGANISM: primer
237 <400> SEQUENCE: 21
238 gttattgatt tcttgacca gtttctg      27
240 <210> SEQ ID NO: 22
241 <211> LENGTH: 27
242 <212> TYPE: DNA
243 <213> ORGANISM: primer
245 <400> SEQUENCE: 22
246 accagtttct gagttgaggg ttagagg      27
248 <210> SEQ ID NO: 23
249 <211> LENGTH: 27
250 <212> TYPE: DNA
251 <213> ORGANISM: primer
253 <400> SEQUENCE: 23
254 aactgcttct tcaacccaac ctcaaga      27

```

## RAW SEQUENCE LISTING

DATE: 12/26/2002

PATENT APPLICATION: US/09/880,253B

TIME: 13:08:51

Input Set : A:\13711.txt

Output Set: N:\CRF4\12262002\I880253B.raw

```

256 <210> SEQ ID NO: 24
257 <211> LENGTH: 27
258 <212> TYPE: DNA
259 <213> ORGANISM: primer
261 <400> SEQUENCE: 24
262 ttaagaagaa acaacccaaa gagtggg 27
264 <210> SEQ ID NO: 25
265 <211> LENGTH: 27
266 <212> TYPE: DNA
267 <213> ORGANISM: primer
269 <400> SEQUENCE: 25
270 cagaaactgg tcaaggaaat caataac 27
272 <210> SEQ ID NO: 26
273 <211> LENGTH: 27
274 <212> TYPE: DNA
275 <213> ORGANISM: primer
277 <400> SEQUENCE: 26
278 cctctaacc tcaactcaga aactggt 27
280 <210> SEQ ID NO: 27
281 <211> LENGTH: 27
282 <212> TYPE: DNA
283 <213> ORGANISM: primer
285 <400> SEQUENCE: 27
286 ggatccagtt tccagccctg gaccacg 27
288 <210> SEQ ID NO: 28
289 <211> LENGTH: 27
290 <212> TYPE: DNA
291 <213> ORGANISM: primer
293 <400> SEQUENCE: 28
294 agatctggcg tctcagggaa ggatgag 27
296 <210> SEQ ID NO: 29
297 <211> LENGTH: 27
298 <212> TYPE: DNA
299 <213> ORGANISM: primer
301 <400> SEQUENCE: 29
302 gctagcagtt tccagccctg gaccacg 27
304 <210> SEQ ID NO: 30
305 <211> LENGTH: 27
306 <212> TYPE: DNA
307 <213> ORGANISM: primer
309 <400> SEQUENCE: 30
310 accggtggcg tctcagggaa ggatgag 27
312 <210> SEQ ID NO: 31
313 <211> LENGTH: 21
314 <212> TYPE: DNA
315 <213> ORGANISM: primer
317 <400> SEQUENCE: 31
318 agactccagc cctggaccgc g 27
320 <210> SEQ ID NO: 32

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/880,253B

DATE: 12/26/2002  
TIME: 13:08:52

Input Set : A:\13711.txt  
Output Set: N:\CRF4\12262002\I880253B.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:6; N Pos. 2,8

Seq#:8; N Pos. 10

Seq#:59; N Pos. 1762,1767,1769,1812,2994,3137,3166,3167

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:62; Line(s) 830